

APPLICATIONS FOR VARIANCES

ELI LILLY COMPANY

LILLY CORPORATE CENTER NORTHWEST QUAD



Lilly

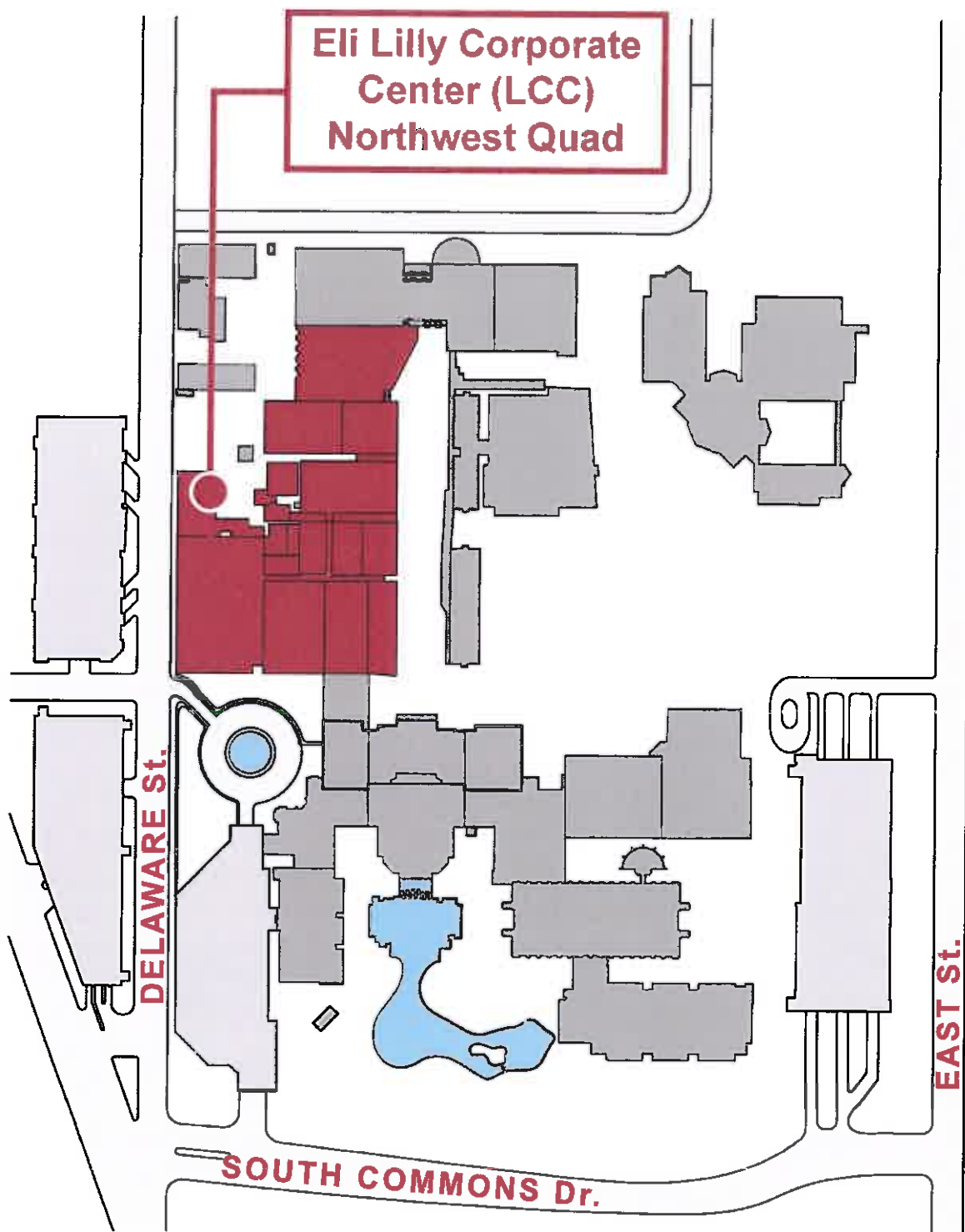
12.9.2014

Submitted by

RTM Consultants Inc.
6640 Parkdale Place
Suite J
Indianapolis, IN 46254


synthesis

RTM
CONSULTANTS, INC.



LILLY CORPORATE CENTER: NW QUAD LOCATION PLAN

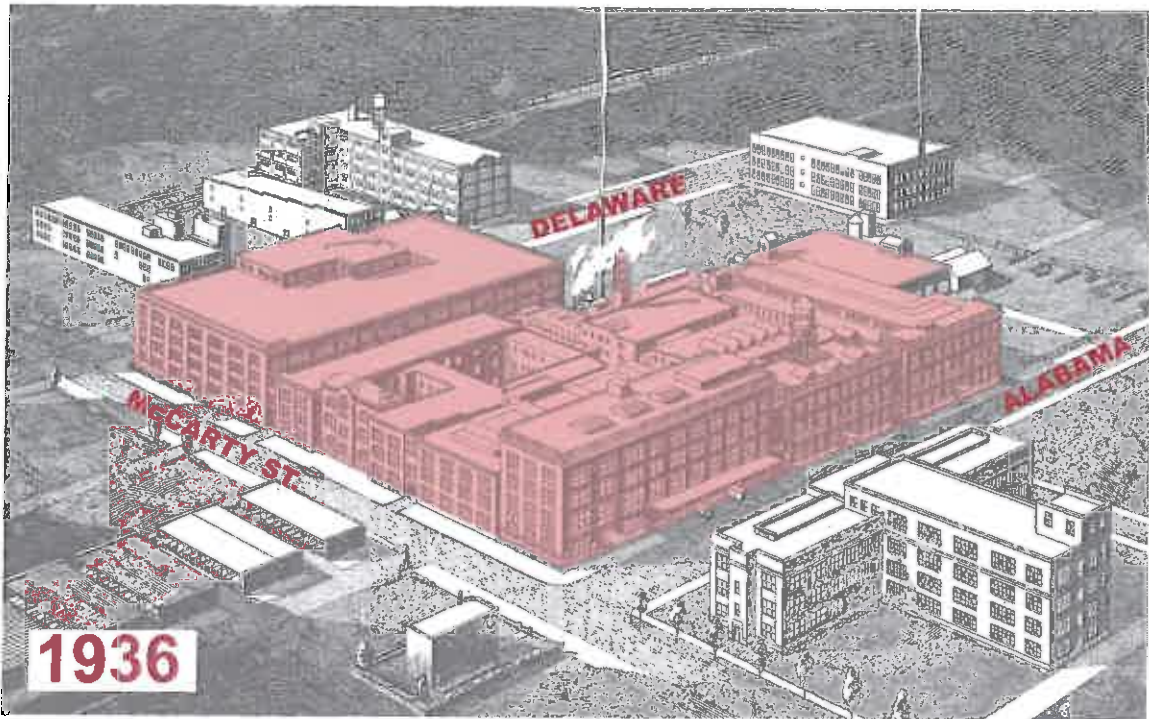
Exhibit A-1



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014



synthesis



LILLY CORPORATE CENTER: NW QUAD AERIAL IMAGES

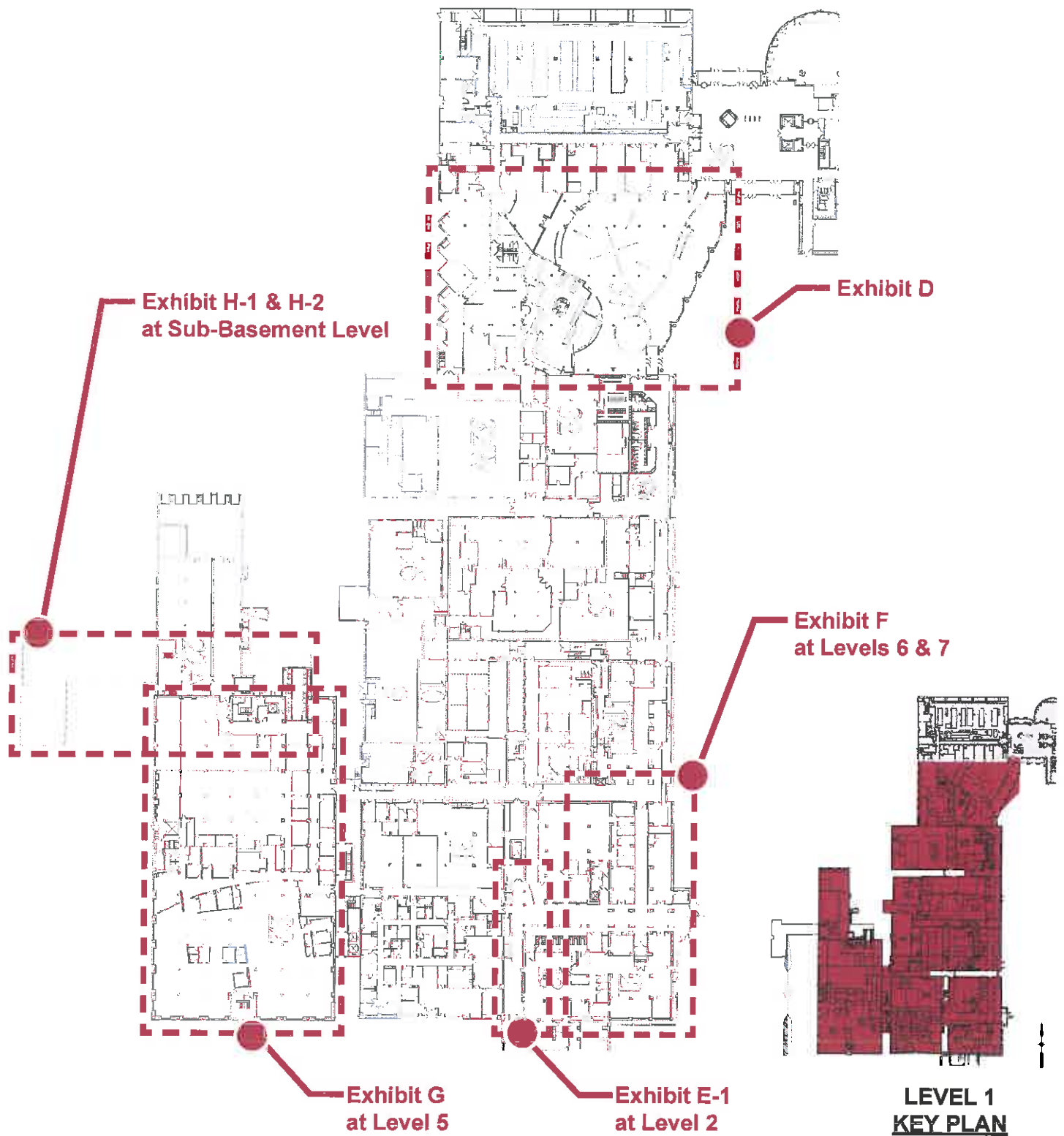
Exhibit A-2



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014



synthesis



VARIANCE EXHIBIT KEY PLAN

Exhibit A-5



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014



synthesis

Code Variances

Fire Prevention and Building Safety Commission

January 2015

Eli Lilly and Company

Northwest Quad

Lilly Corporate Center
Indianapolis, Indiana

The following variance requests are submitted for consideration at the January 6, 2014, hearing of the Fire Prevention and Building Safety Commission:

1. Allowable area and height for buildings joined together by various pedestrian connector and atrium additions occurring primarily in the 1980's
2. Travel distance in buildings constructed prior to 1975 was extended beyond the permitted 150 feet permitted in codes adopted prior to 1975 as a result of the construction associated with various pedestrian connector and atrium additions occurring primarily in the 1980's
3. A vertical opening between Buildings 13 and 31 created by construction occurring in a 1987 project does not comply with shaft enclosure requirements per the code of record for that project
4. Existing 4-hour area separation wall between Buildings 57 and 98 does not comply with vertical termination requirements and has nonrated openings existing in the wall
5. Existing 2-hour area separation wall between Buildings 32 and 57 does not comply with vertical termination requirements
6. A smoke removal system required as a condition of a variance granted in 1983 to permit a nonrated roof assembly for Building 57 is not in place in the current construction
7. A 6th story was added to Building 22 over a number of years beginning in 1956, exceeding the allowable height based upon the nonrated, noncombustible construction of the added area
8. A multi-level mechanical penthouse structure was added to Building 21 as part of a 1987 project that exceeds the area and height permitted per code of record
9. The below-grade pedestrian walkway between Buildings 22 and Parking Structure #3 is not separated at each end with 1-hour rated walls as required per code of record
10. Two (2) existing fire alarm evacuation zones are not separated by a fire- or smoke-rated wall

Building and Code Time Lines

The Northwest Quadrant (NW Quad) on the Lilly Corporate Center campus includes buildings 8, 9, 10, 11, 12, 14, 15, 15W, 16, 21, 22, 22A, 31, 32, 32W and 57. The NW Quad bounds Building M98A on the north, Building 73 on the south, Delaware Street on the west, and the Alabama Mall on the east.

The general time frame for construction of the buildings was as follows:

- Buildings 8-16 Between 1901 and 1913
- Buildings 21, 22: 1924 and 1926, respectively
- Buildings 32, 31, 15W, 22A: Between 1936 and 1958
- Building 32W: 1970
- Building 57: 1984
- Pedestrian connectors and atriums: 1984-1990, 2004

For purposes of applying code requirements to the buildings the time frames above can be broken into the following general categories:

- Pre-1928: Prior to adoption of the 1st building code in Indiana
- 1928-1975: Codes effective prior to adoption of the 1st model building code (UBC) in Indiana
- 1975-2003: Indiana Building Code based upon Uniform Building Code (UBC)
- 2003-present: Indiana Building Code based upon International Building Code

The pedestrian connectors and atriums can be briefly summarized as follows:

- North-south pedestrian connector from the south wall of Building 57, passing alongside and in some cases between Buildings 32, 15, 14, 13, 12, and 21
- Atrium within Building 14, connecting to Building 12
- Atrium within Building 32, connecting to Building 15
- Atrium between Buildings 31 and 13
- Pedestrian connector/elevator between Buildings 22 and 31 (2004 project)

Variances for Allowable Area and Height, and Egress Travel Distance

Prior to the pedestrian connector and atrium projects in the 1980's, the buildings were mostly separate structures connected by narrow alleys and a number of elevated bridges and double-loaded stairways in some locations.

The initial projects in 1985 for pedestrian connectors between Buildings 32 and 15, between Buildings 12 and 15, and connecting Buildings 14, 12, 13, and 21 were addressed in variance requests in October and November of 1984. The variances were approved at the subsequent Commission hearings. The general concept was to use the not-yet-adopted provisions of the 1985 Uniform Building Code (UBC) for "pedestrian walkways" and "atriums". The intent was to have the various connectors between buildings treated in accordance with these provisions, in lieu of consideration as building additions. However, the execution of this strategy was not entirely successful in that the at-grade connectors created did not end up complying with the specific "pedestrian walkways" provisions of the 1985 UBC.

In addition to the variances noted above, a draft project narrative dated August, 1984 addressed to the Office of the State Building Commissioner was discovered. (A modified version of this letter dated October 11, 1984 was referenced in the approval of at least one of the connector variances). The document describes in detail the existing buildings, the scope of the proposed projects, and several code assumptions for the pedestrian connector/atrium projects, as well as the life safety features.

In addition to the projects referenced above, connector projects occurring in 1987 and 2004 further connected Buildings 13, 21, 31, and 22, without addressing the issue of connecting buildings without the use of fire walls. As a result of these projects the affected buildings which were previously minimally connected were now in effect a single building area, based upon lack of any separations qualifying as distinguishing separate buildings per the building code.

The currently requested variance for allowable area and height is intended to supersede the referenced variances above, and to address the otherwise connected buildings in the noted projects.

The vast majority of the Northwest Quad building construction is either steel frame or concrete frame and floor construction. Some of the older buildings are Type III Construction with masonry bearing exterior walls, with some wood roof and floor construction. The lowest common type is Type IIIB Construction. The largest floor is the 1st floor, or the concourse level, which is 165,545 sq ft. Total sq footage not including basement levels and mechanical penthouses is approximately 629,000 sq ft.

- If we evaluate the buildings per the Indiana codes in effect for the 1980's projects for allowable area, the allowable is calculated as follows:
 $(18,000 \text{ sq ft})(2)(2) = 72,000 \text{ sq ft}$ per floor allowable, based upon compounding 100% increase factors for automatic sprinkler protection and frontage provided either by 60 feet of frontage, or 4-hour fire walls at the edge of the Northwest Quadrant. Total allowable area is 142,000 sq ft
- If we calculate allowable area per current code, we get a similar result per floor:
 $19,000 \text{ sq ft tabular area} + 38,000 \text{ sq ft sprinkler increase} + 14,250 \text{ sq ft frontage increase} = 71,250 \text{ sq ft}$. Total allowable area is 213,750 sq ft, based upon an increase of 3 times allowable per floor

Allowable height per codes in effect in the 1980's is only 2 stories, since automatic sprinklers could not be used for both allowable area and height increases.

Allowable height per current code is 4 stories

Most individual buildings are 4 stories in height. Buildings 21 is 5 stories in height, whereas Building 31 and Building 22 are 6 stories in height.

In addition to the connection of existing buildings, a number of enclosed stairs and previous exterior exit and exit discharge elements were compromised or eliminated in the many 1980's connector projects described above. When considering complying exits and exit discharge elements currently, significant portions of the Northwest Quad group of buildings have egress travel distance exceeding both the 150-ft limit per codes in effect prior to 1975, and the 200-ft limit per codes in effect after 1975.

A total of five (5) new and/or modified exit enclosures with exit discharge to the exterior are proposed to remedy excessive travel distance, and to mitigate the effect of having interconnected buildings which in the aggregate represent a considerable floor area per story.

Proposed new stair enclosures and modified existing stairs and exit discharge elements will result in all floor areas on all stories falling within the 200 feet travel distance limit to an exit. Current code permits up to 300 feet travel distance in a sprinklered Business Occupancy building.

Previous NW Quad Variances for Connectors and Atriums

The following previous variance requests applicable to the NW Quad connector and atrium projects, and relevant to the subject variances have been discovered:

Document Date	Variance Description
December 6, 1983	To permit a smoke removal system in lieu of a 1-hour roof-ceiling assembly for Building 57
October 11, 1984	To permit the use of Sec. 509 of the proposed 1985 UBC in lieu of Sec. 509, Indiana Construction Rules (ICR) for pedestrian walkways connecting Buildings 32, 15, and 14
November 15, 1984	To permit the use of Sec. 509 of the proposed 1985 UBC in lieu of Sec. 509, ICR for pedestrian walkways connecting Buildings 14, 12, 13, and 21
November 15, 1984	To permit the use of Sec. 1715 of the 1982 UBC for the Building 14 atrium design in lieu of shaft enclosure requirements of Sec. 1706, ICR
September, 1989	To permit the open stair in the 32 atrium to be used as a means of egress, and to permit Buildings 32 and 15 to be joined together as part of the project
September, 1989	To permit Buildings 32 and 15 to be joined together into a single building for purposes of applying allowable area and height
June 27, 1990	To permit connection to a double-ended electrical substation in lieu of a generator for the atrium smoke control system for the atrium within Building 32 and connecting Building 15



APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICE SECTION
402 West Washington Street, Room W246
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/



INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of the applicant

Timothy A. Puls, P.E.

Title

Engineering Consultant

Name of organization

Eli Lilly and Company

Telephone number

(317) 276-7355

Address (number and street, city, state, and Zip code)

Lilly Corporate Center 893 South Delaware Street Indianapolis, Indiana 46285

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (if not submitted by the applicant)

Name of person on behalf of the applicant

Edwin L. Rensink

Title

Principal

Name of organization

RTM Consultants, Inc.

Telephone number

(317) 329-7700

Address (number and street, city, state, and Zip code)

6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

3. DESIGN PROFESSIONAL OF RECORD (if applicable)

Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

Lilly Corporate Center Indianapolis, Indiana 46204

Type of project:

☐ New

☐ Addition

☐ Alteration

☐ Change of Occupancy

☒ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- ☒ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- ☒ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☒ Written documentation showing that the local fire official has received a copy of the variance application.
- ☒ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order)

☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by:

☐ Local Building Department

☐ State Fire and Building Code Enforcement Section

☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

General Administrative Rules, 2nd Edition

Specific code section

Rule 4, Section 12(f)

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

Connector additions occurring primarily in the 1980's to the various buildings within the LCC Northwest Quadrant resulted in a group of buildings comprising a single building area exceeding allowable area and height per codes of record. See attached for detailed information regarding allowable area and height. The original buildings involved in this request date from 1901 to 1958, with a number of subsequent small additions and renovations. Many of the older buildings were constructed between 1901 and 1913, and are of Type IIB Construction. Later buildings are generally of Type IIB Construction, with a considerable extent of concrete frame and floor construction. Prior to the pedestrian connector additions, the buildings were mostly separate structures connected by narrow alleys and a number of elevated bridges and double-loaded stairways in some locations.

The buildings are primarily Business Occupancy, with some A-3 Occupancy meeting spaces.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

1. The buildings are protected throughout with an automatic sprinkler system. The fire alarm system has been upgraded recently to current standards. Lilly has a rigorous maintenance program for their fire protection system, with 24-hour on-site fire and security monitoring and emergency response.
2. A total of five (5) new complying exits will be provided in the effected buildings (per separate variance for egress travel distance), consisting of new and/or reconfigured enclosed exit stairs with complying exit discharge.
3. Based upon maintained sprinkler protection and proposed egress improvements, the lack of compliance with allowable area and height requirements will not be adverse to safety.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

The majority of the buildings involved were constructed prior to the adoption of the 1st building code in Indiana in 1928. The buildings were partially connected prior to the connector additions addressed in this variance request. Creating fire walls within the group of buildings to comply with allowable area requirements is an operational and financial hardship.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application

Please print name

Date of signature (month, day, year)



Edwin L. Rensink

12.4.14

Signature of design professional (if applicable)

Please print name

Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant

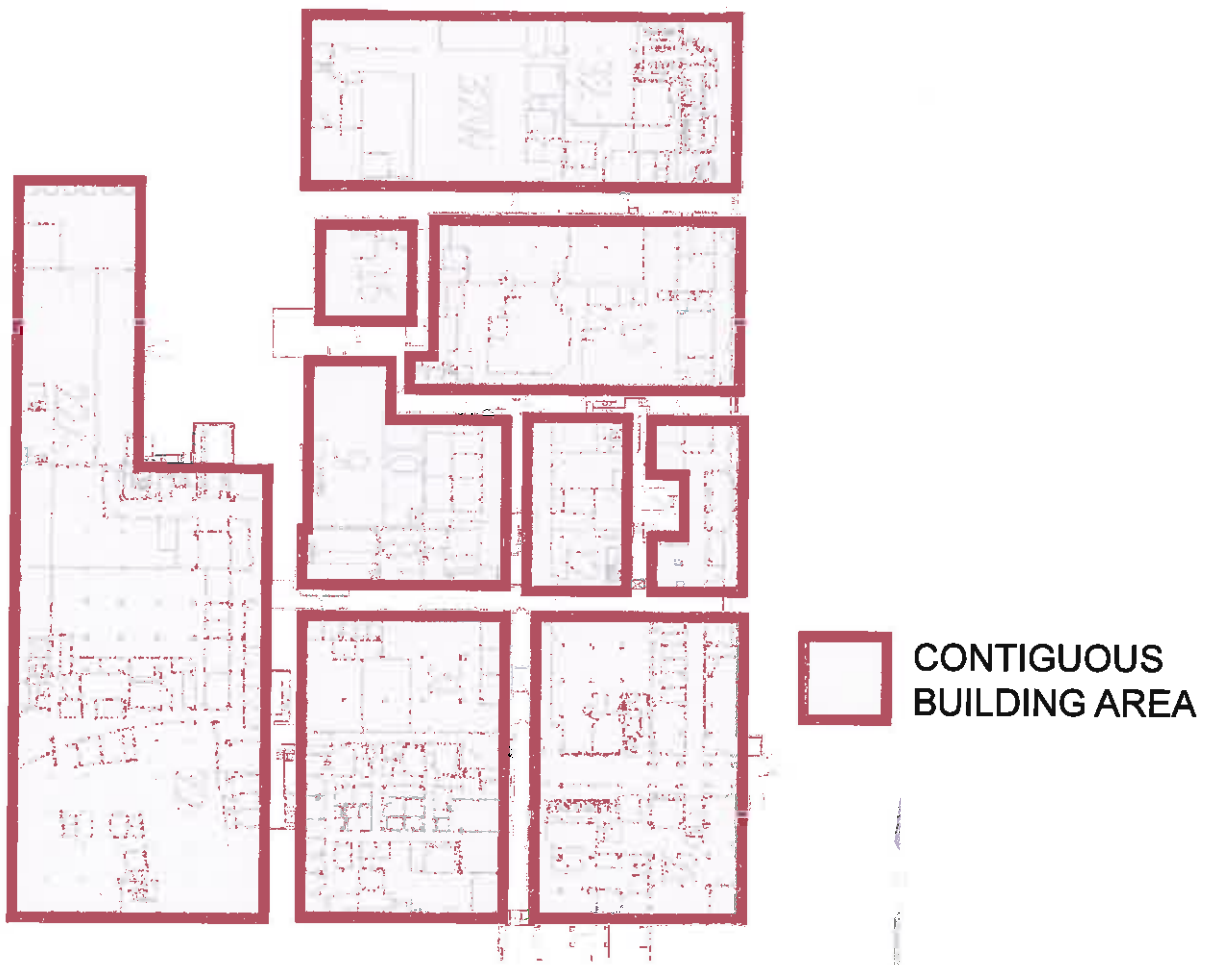
Please print name

Date of signature (month, day, year)



Timothy A. Puls, P.E.

4 DEC 2014



PRE-1984

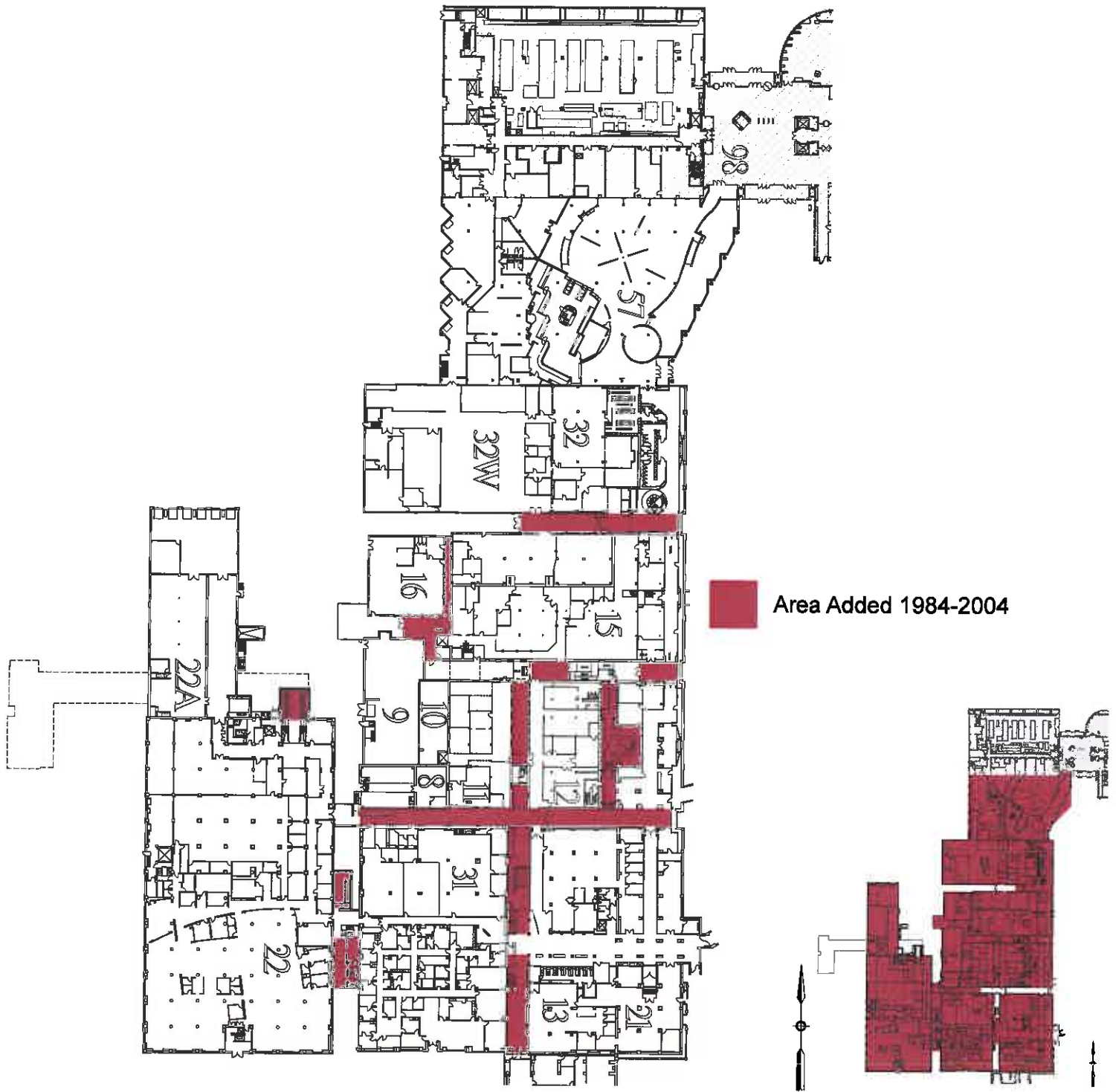
NW QUAD: CONCOURSE LEVEL PRE-1984

Exhibit A-3



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014





**LEVEL 1
KEY PLAN**

ADDITIONAL AREA VARIANCE EXHIBIT

Exhibit B



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014





APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICE SECTION
402 West Washington Street, Room W246
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/



INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

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Name of the applicant

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Engineering Consultant

Name of organization

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Telephone number

(317) 276-7355

Address (number and street, city, state, and Zip code)

Lilly Corporate Center 893 South Delaware Street Indianapolis, Indiana 46285

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Name of person on behalf of the applicant

Edwin L. Rensink

Title

Principal

Name of organization

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Telephone number

(317) 329-7700

Address (number and street, city, state, and Zip code)

6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

3. DESIGN PROFESSIONAL OF RECORD (if applicable)

Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

Lilly Corporate Center Indianapolis, Indiana 46204

Type of project: ☐ New ☐ Addition ☐ Alteration ☐ Change of Occupancy ☒ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- ☒ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- ☒ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☒ Written documentation showing that the local fire official has received a copy of the variance application.
- ☒ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order) ☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

General Administrative Rules, 2nd Edition

Specific code section

Rule 4, Section 12(d)

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

Projects occurring primarily in the 1980's to the various buildings within the LCC Northwest Quadrant, including connector additions, resulted in egress travel distance exceeding the permitted 150 feet to an exit permitted by the various codes of record. See drawings for details. The original buildings involved in this request date from 1901 to 1958, with a number of subsequent small additions and renovations. Many of the older buildings were constructed between 1901 and 1913, and are of Type IIIB Construction. Later buildings are generally of Type IIB Construction, with a considerable extent of concrete frame and floor construction. Prior to the renovations and pedestrian connector additions, the buildings were mostly separate structures connected by narrow alleys and a number of elevated bridges and double-loaded stairways in some locations.

The buildings are primarily Business Occupancy, with some A-3 Occupancy meeting spaces.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

1. A total of five (5) new complying exits will be provided in the effected buildings, consisting of new and/or reconfigured enclosed exit stairs with complying exit discharge features. Egress travel distance will be reduced to a maximum of 200 feet as a result the new exit components. This will achieve compliance with the code in effect in 1975, which was adopted subsequent to the original construction of the subject buildings.
2. The buildings are protected throughout with an automatic sprinkler system. The fire alarm system has been upgraded recently to current standards. Lilly has a rigorous maintenance program for their fire protection systems, with 24-hour on-site fire and security monitoring and emergency response.
3. Based upon maintained sprinkler protection and proposed egress improvements, the lack of compliance with the code of record egress travel distance limit will not be adverse to safety.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Creating additional exit components to reduce travel distance to 150 feet maximum is an operational and financial hardship, based upon current the building configuration.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application

Please print name

Date of signature (month, day, year)

Edwin L. Rensink

12.4.14

Signature of design professional (if applicable)

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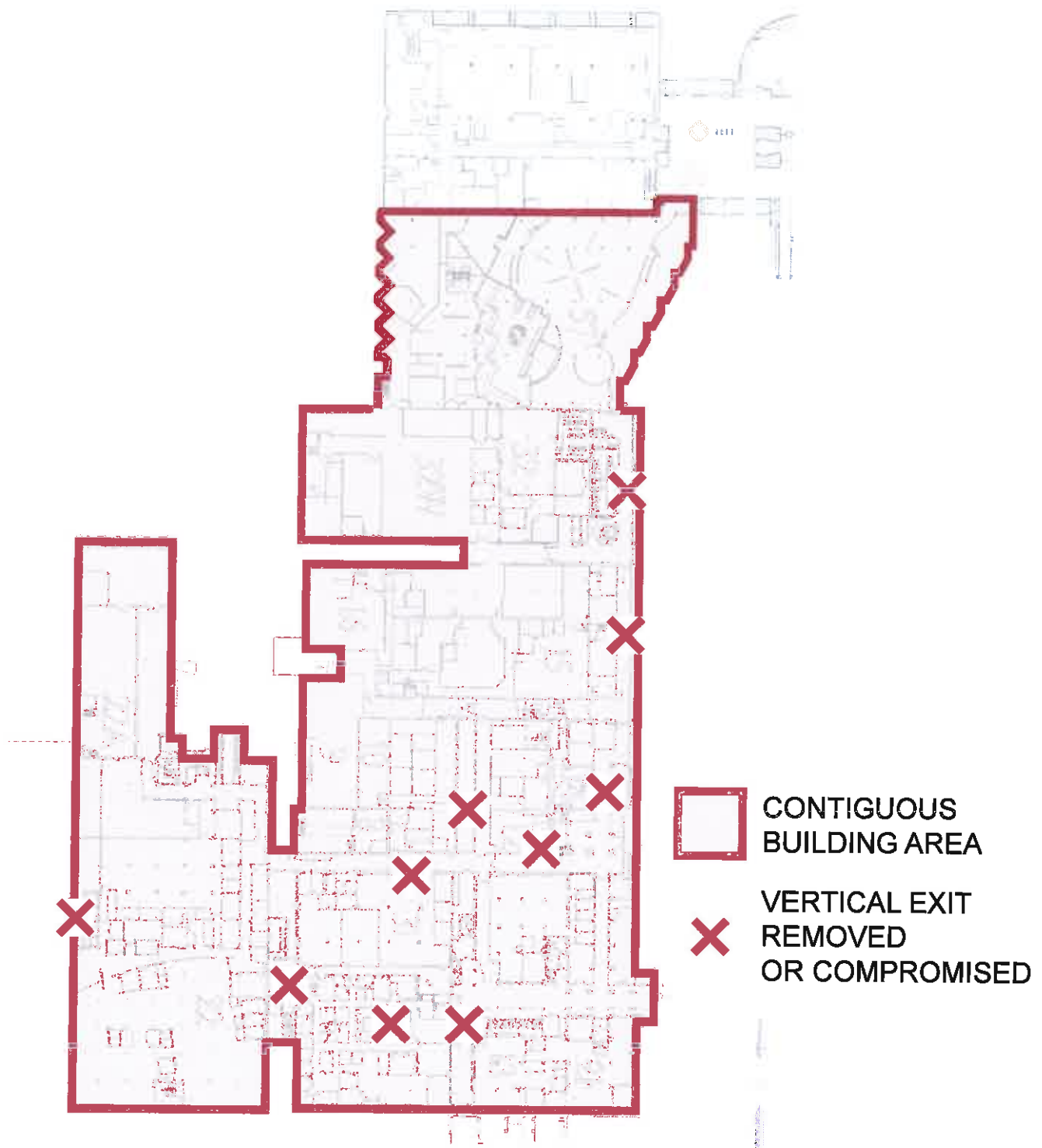
Signature of applicant

Please print name

Date of signature (month, day, year)

Timothy A. Puls, P.E.

4 DEC 2014



POST 2004

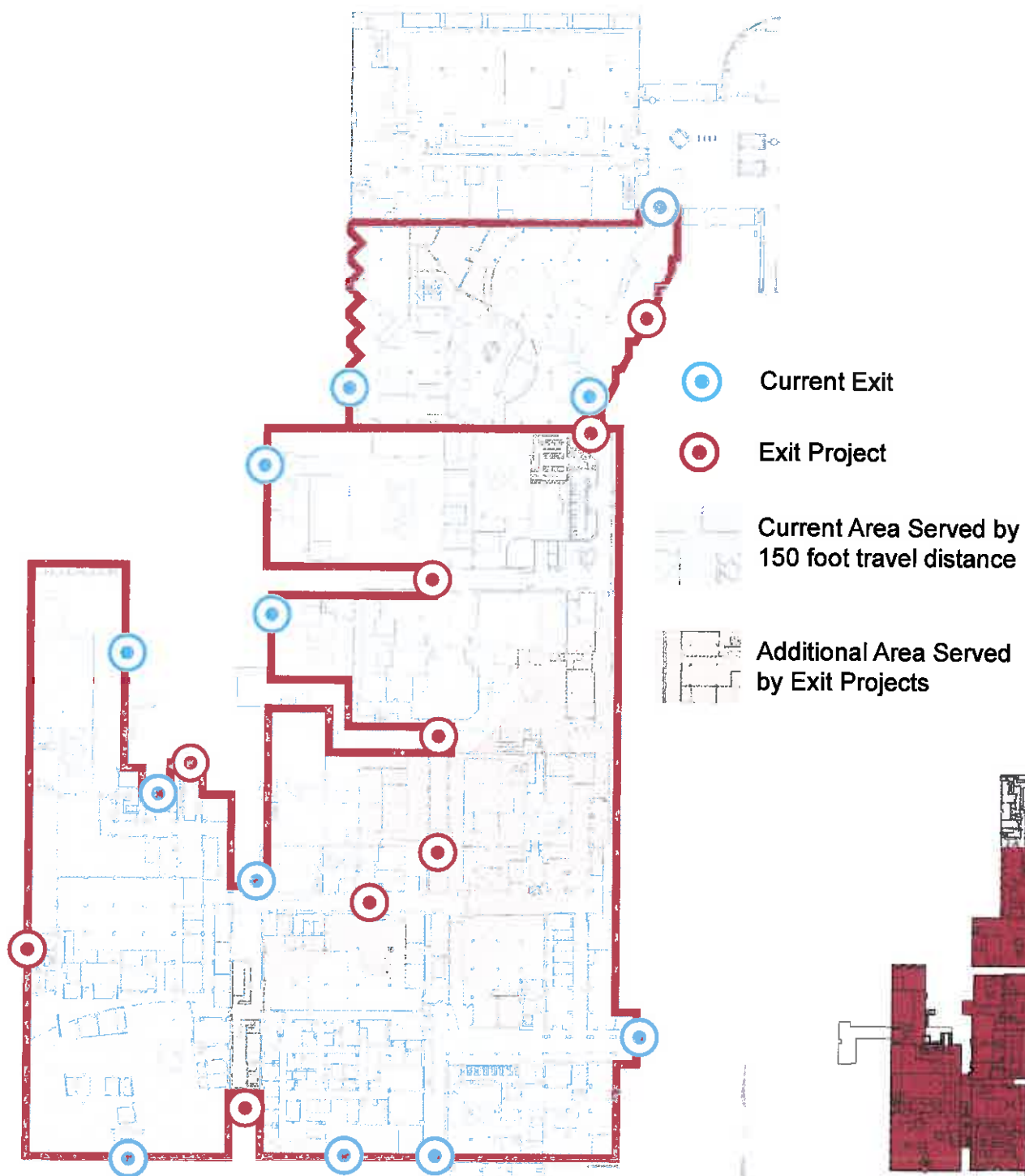
NW QUAD: CONCOURSE LEVEL POST-2004

Exhibit A-4

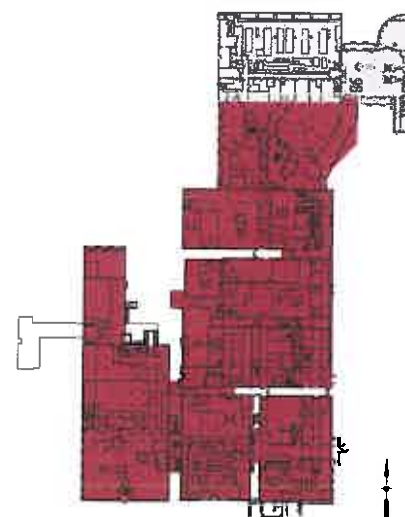


**Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014**





**PROPOSED IMPROVED EXITING AT
CONCOURSE LEVEL (1)**



**LEVEL 1
KEY PLAN**

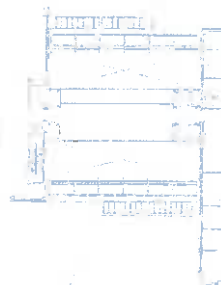
IMPROVED TRAVEL DISTANCE

Exhibit C-1



**Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014**





Current Exit



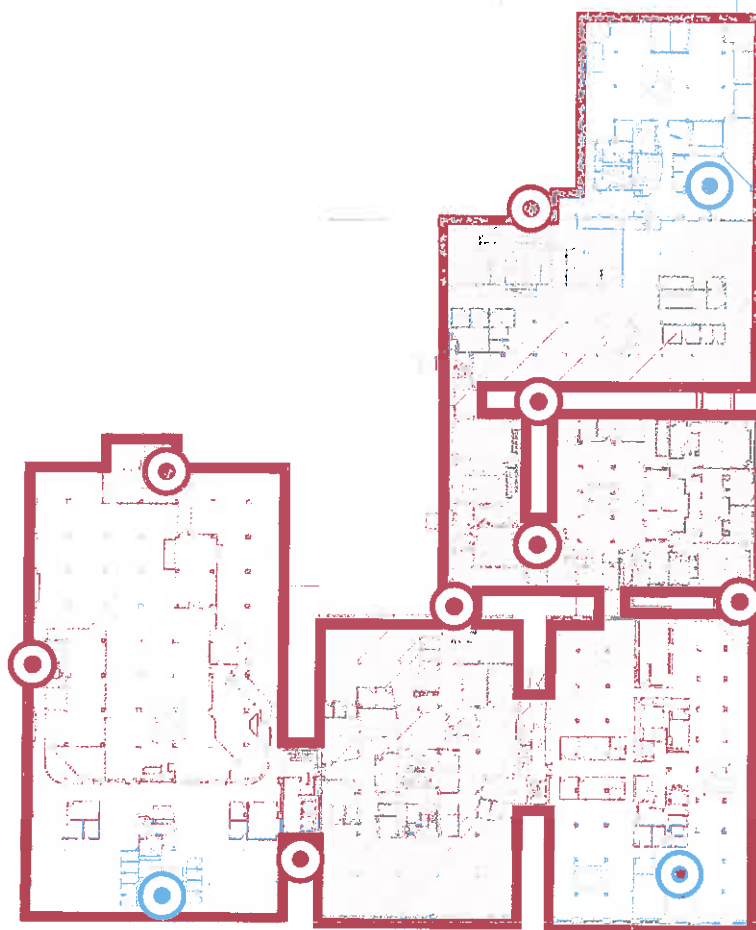
Exit Project



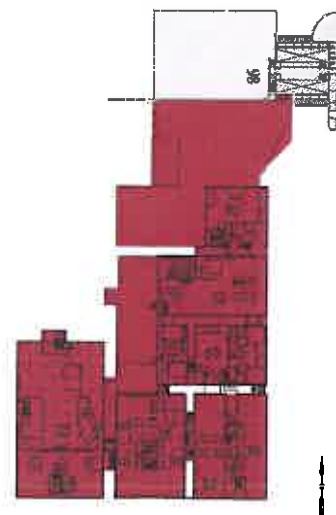
Current Area Served by
150 foot travel distance



Additional Area Served
by Exit Projects



**PROPOSED IMPROVED EXITING AT
FOURTH LEVEL**



**LEVEL 4
KEY PLAN**

IMPROVED TRAVEL DISTANCE (TYPICAL LEVEL)

Exhibit C-2



**Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014**





APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

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Engineering Consultant

Name of organization

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Edwin L. Rensink

Title

Principal

Name of organization

RTM Consultants, Inc.

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6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

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Name of design professional

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Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

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Type of project: ☐ New ☐ Addition ☐ Alteration ☐ Change of Occupancy ☒ Existing

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Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order) ☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

1985 Indiana Building Code

Specific code section

1706

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

A 1987 project with the LCC Northwest Quadrant included a new vertical opening between Buildings 13 and 31 which interconnected an existing stair between the buildings with a roofed-over courtyard with openings to 3 stories on each side of the previous unroofed courtyard. The vertical opening did not comply with enclosure requirements per the 1985 IBC. See drawings for details. Building 13 is 5 stories in height and was constructed in approximately 1913. Building 31 is 6 stories in height and was constructed in the 1930's. The buildings are primarily Business Occupancy, with some A-3 Occupancy meeting spaces, including a large conference room on the 5th floor of Building 31.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

1. An automatic sprinkler will be provided at the ceiling level on the building side of each window opening from both buildings into the 3-story roofed-over courtyard.
2. Door openings from each building into the stairs on floors 2-6 are or will be protected with 90-minute rated assemblies. All wall construction is multi-wythe masonry.
3. Two (2) new complying exits will be provided for the upper floors of Building 31, consisting of one (1) new enclosed stair and one (1) reconfigured exit stair with complying exit discharge features. The stair involved in this request will not be a required exit for Building 31 upon completion of those stairs.
4. The buildings are protected throughout with an automatic sprinkler system. Lilly has a rigorous maintenance program for their fire protection systems, with 24-hour on-site safety and security monitoring and emergency response.
5. Based upon the proposed enhancements to the existing vertical opening condition, the lack of compliance with shaft enclosure requirements for the existing vertical opening will not be adverse to safety.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Achieving strict compliance with vertical opening protection requirements per either the code of record or current code is an operational and financial hardship, based upon the current building configuration.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application



Please print name

Edwin L. Rensink

Date of signature (month, day, year)

12.4.14

Signature of design professional (if applicable)

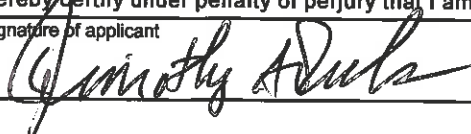
Please print name

Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant

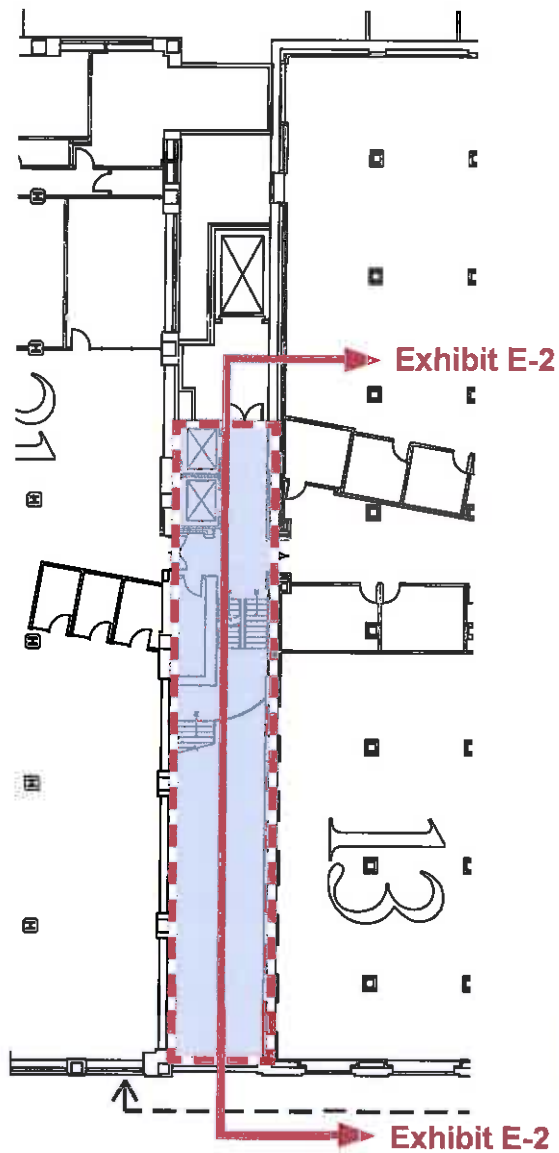


Please print name

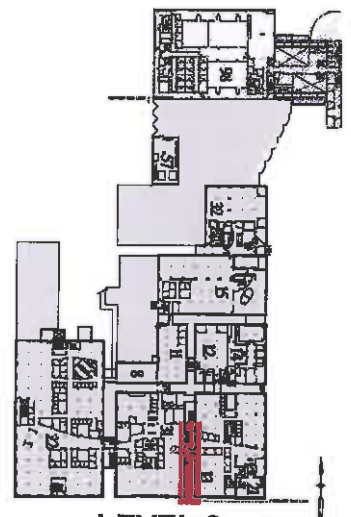
Timothy A. Puls, P.E.

Date of signature (month, day, year)

4 DEC 2014



Unprotected Shaft



**LEVEL 2
KEY PLAN**

BUILDINGS 13/31 ATRIUM PLAN




Exhibit E-1

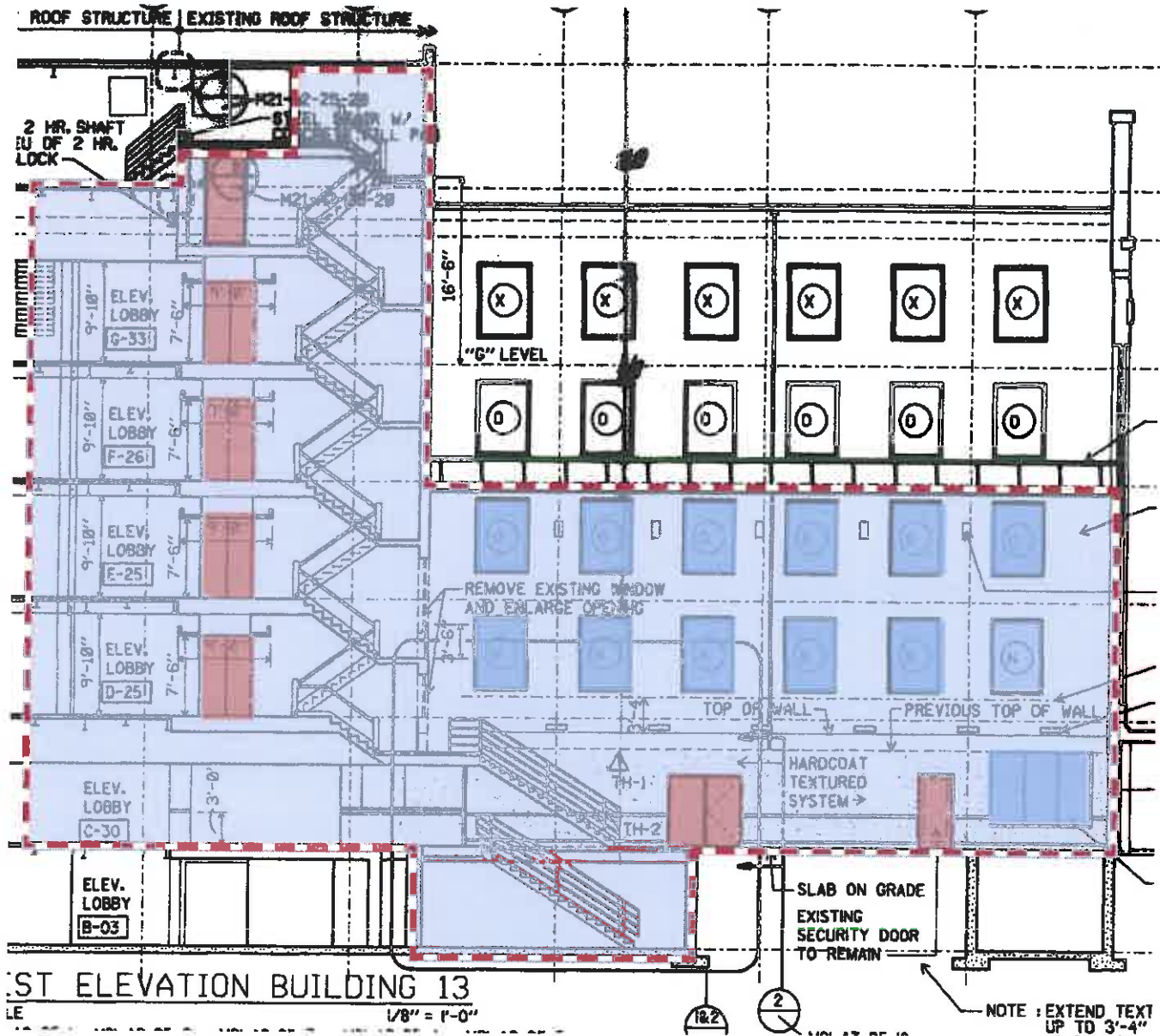


Eli Lilly Company
NW Quad Code Study
#0233011
 December 9, 2014



synthesis

-  Unprotected Shaft
-  Proposed or Existing Rated Openings
-  Windows to be Protected by Sprinkler



BUILDINGS 13/31 ATRIUM SECTION

Exhibit E-2



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014

RTM
CONSULTANTS, INC.



synthesis



APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICE SECTION
402 West Washington Street, Room W246
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/



INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of the applicant

Timothy A. Puls, P.E.

Title

Engineering Consultant

Name of organization

Eli Lilly and Company

Telephone number

(317) 276-7355

Address (number and street, city, state, and Zip code)

Lilly Corporate Center 893 South Delaware Street Indianapolis, Indiana 46285

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (if not submitted by the applicant)

Name of person on behalf of the applicant

Edwin L. Rensink

Title

Principal

Name of organization

RTM Consultants, Inc.

Telephone number

(317) 329-7700

Address (number and street, city, state, and Zip code)

6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

3. DESIGN PROFESSIONAL OF RECORD (if applicable)

Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

Lilly Corporate Center Indianapolis, Indiana 46204

Type of project: ☐ New ☐ Addition ☐ Alteration ☐ Change of Occupancy ☒ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- ☒ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- ☒ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☒ Written documentation showing that the local fire official has received a copy of the variance application.
- ☒ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order) ☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

1980 Indiana Construction Rules
General Administrative Rules, 2nd Edition

Specific code section

505(e)
Rule 4, Section 9(a)

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

An existing 4-hour area separation wall is provided between Building 57 and Building 98, based upon drawing documentation from the Building 98 project in 1982. A set of nonrated glass doors and sidelights occur per the original construction in the 4-hour wall. Code requires 3-hour rating for openings in a 4-hour wall. Additionally the wall terminates at the Building 57 roof in lieu of 30 inches above the roof with protected openings in the exterior wall of Building 57 for 10 feet above the roof - as required for area separation walls terminating at "roofs of different heights".

Building 57 is a Type II 1-hour Construction (per 1980 ICR) cafeteria and was classified as A-2.1 Occupancy per the 1980 ICR, and A-2 Occupancy per current code. Building 98 is a Type IA (Type I-FR per code of record)

Construction research laboratory building classified as B Occupancy per current code (B-2 Occupancy per code of record).

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

1. The existing nonrated glazed doors and sidelights in the existing area separation wall will be replaced with minimum 90-minute rated glazed fire assemblies. A row of closely spaced sprinklers exist along the cafeteria side of the openings.
2. The buildings are protected throughout with an automatic sprinkler system.
3. Based upon the lack of fire load in the vicinity of the openings, rating of openings, and automatic sprinkler protection, the lack of 3-hour rating for the openings will not be adverse to safety. Termination at the lower roof will not be adverse to safety based upon sprinkler protection in both buildings.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Glazed openings are desired to be retained in this location to maintain visibility between the Building 98 lobby and the cafeteria. Glazed openings of this configuration are not available with a 3-hour rating. Extending the existing wall vertically is not feasible based upon the cost of retrofitting existing Building 98 construction.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application



Please print name

Edwin L. Rensink

Date of signature (month, day, year)

12.4.14

Signature of design professional (if applicable)

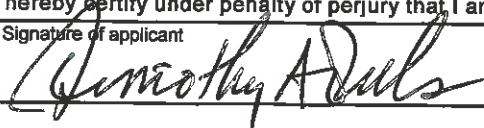
Please print name

Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant

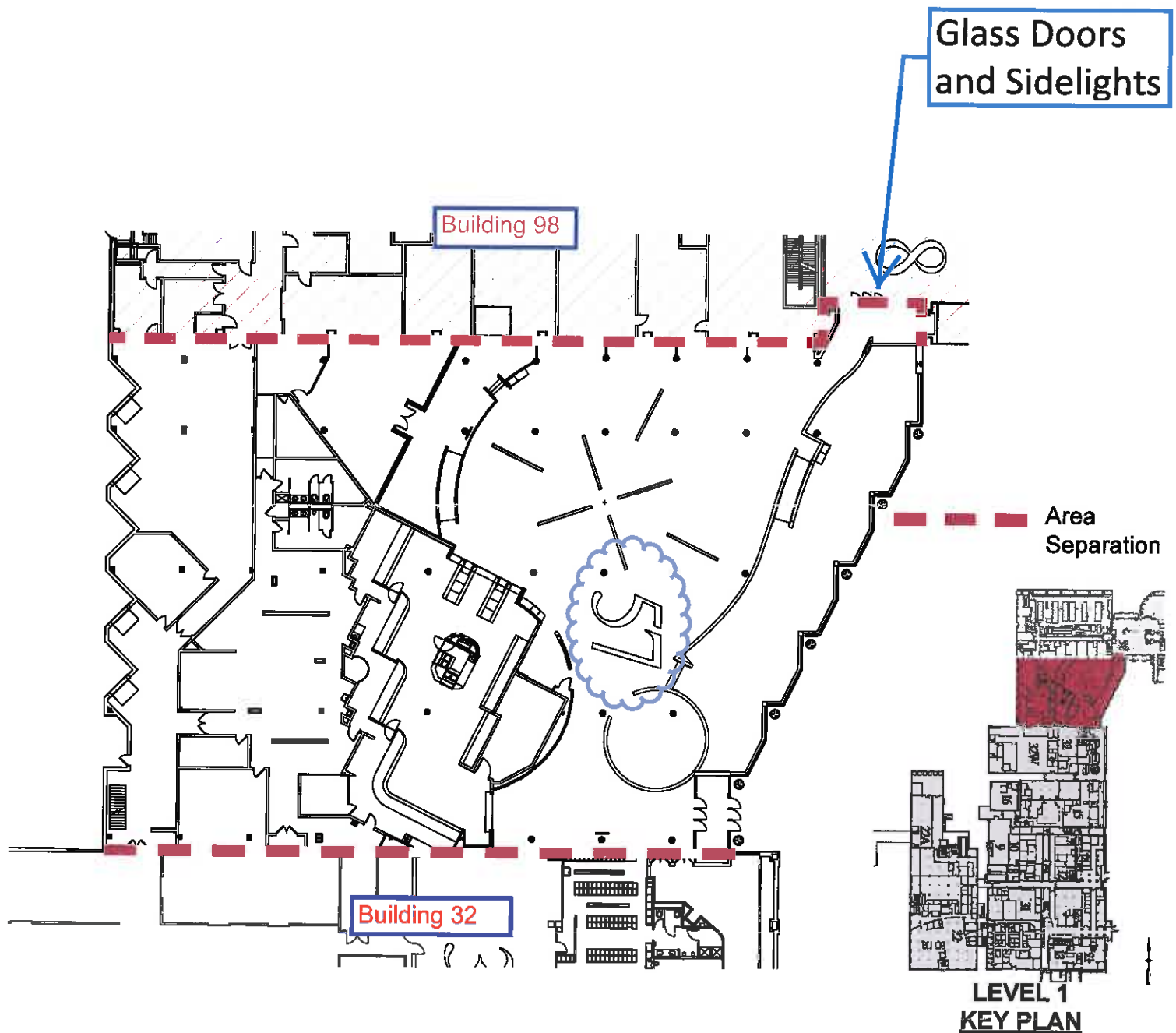


Please print name

Timothy A. Puls, P.E.

Date of signature (month, day, year)

4 DEC 2014



BUILDING 57 SEPARATION VARIANCE

Exhibit D



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014



synthesis



APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICE SECTION
402 West Washington Street, Room W246
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/



INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of the applicant

Timothy A. Puls, P.E.

Title

Engineering Consultant

Name of organization

Eli Lilly and Company

Telephone number

(317) 276-7355

Address (number and street, city, state, and Zip code)

Lilly Corporate Center 893 South Delaware Street Indianapolis, Indiana 46285

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (if not submitted by the applicant)

Name of person on behalf of the applicant

Edwin L. Rensink

Title

Principal

Name of organization

RTM Consultants, Inc.

Telephone number

(317) 329-7700

Address (number and street, city, state, and Zip code)

6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

3. DESIGN PROFESSIONAL OF RECORD (if applicable)

Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

Lilly Corporate Center Indianapolis, Indiana 46204

Type of project: ☐ New ☐ Addition ☐ Alteration ☐ Change of Occupancy ☒ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- ☒ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- ☒ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☒ Written documentation showing that the local fire official has received a copy of the variance application.
- ☒ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order) ☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

1980 Indiana Construction Rules

General Administrative Rules, 2nd Edition

Specific code section

505(e)

Rule 4, Section 9(a)

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

The existing 2-hour area separation wall between Building 57 and Building 32/32W terminates at the roof of Building 57 in lieu of 30 inches above the roof with protected openings in the exterior wall of Building 32 for 10 feet above the roof - as required for area separation walls terminating at "roofs of different heights". Building 57, constructed in 1984, is a cafeteria and was classified as A-2.1 Occupancy per the 1980 ICR, and A-2 Occupancy per current code. Building 32 was constructed as a 2-story building in 1935, with an additional 2 floors added in 1955. The 1-story 32W addition was completed in 1970. Building 57 and 32 are of Type IIB Construction.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (be specific).

Facts demonstrating that the above selected statement is true:

1. An existing pair of 90-minute rated doors which is penetrated by a travel beam and hoist from the Building 57 docks to the shop area in Building 32W will be replaced with new complying 90-minute rated fire assemblies.
2. The buildings on each side of the existing 2-hour area separation wall are protected throughout with an automatic sprinkler system. The sprinkler protection in each building will prevent fire leap from one building to another over the top of the 2-hour wall.
3. Based upon the presence of automatic sprinkler protection in each building, the existing termination of the 2-hour wall at the Building 57 roof level will not be adverse to safety.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☐ Imposition of the rule would result in an undue hardship (unusual difficulty) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (unusual difficulty) because of major operational problems in the use of the building or structure
- ☒ Imposition of the rule would result in an undue hardship (unusual difficulty) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Extending the existing 2-hour wall above the Building 57 roof is an operational and financial hardship.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application

Please print name

Edwin L. Rensink

Date of signature (month, day, year)

12.4.14

Signature of design professional (if applicable)

Please print name

Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant

Please print name

Timothy A. Puls, P.E.

Date of signature (month, day, year)

4 DEC 2014



APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICE SECTION
402 West Washington Street, Room W246
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/



INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted: usually this is the owner)

Name of the applicant

Timothy A. Puls, P.E.

Title

Engineering Consultant

Name of organization

Eli Lilly and Company

Telephone number

(317) 276-7355

Address (number and street, city, state, and Zip code)

Lilly Corporate Center 893 South Delaware Street Indianapolis, Indiana 46285

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (if not submitted by the applicant)

Name of person on behalf of the applicant

Edwin L. Rensink

Title

Principal

Name of organization

RTM Consultants, Inc.

Telephone number

(317) 329-7700

Address (number and street, city, state, and Zip code)

6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

3. DESIGN PROFESSIONAL OF RECORD (if applicable)

Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

Lilly Corporate Center Indianapolis, Indiana 46204

Type of project: ☐ New ☐ Addition ☐ Alteration ☐ Change of Occupancy ☒ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- ☒ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- ☒ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☒ Written documentation showing that the local fire official has received a copy of the variance application.
- ☒ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order) ☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

1980 Indiana Construction Rules
General Administrative Rules, 2nd Edition

Specific code section

Table 17-A
Rule 4, Section 9(a)

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

A variance was granted in December, 1983, for Building 57 to permit the roof-ceiling assembly to be nonrated based upon provision of a smoke removal system. Subsequent HVAC renovations to Building 57 have eliminated whatever system was provided as a condition of that variance. This variance request is to permit the roof-ceiling assembly to be nonrated without the condition of a smoke removal system.

Building 57 cafeteria was constructed in 1984, and was classified as A-2.1 Occupancy per the 1980 ICR, and A-2 Occupancy per current code. The building was classified as Type II 1-hour Construction per the code of record based upon allowable area.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

1. Building 57 complies with current code for allowable area for Type IIB (nonrated, noncombustible) Construction. The building could be constructed per current code without a rated roof-ceiling assembly.
2. The building is protected throughout with an automatic sprinkler system.
3. Based upon automatic sprinkler protection, the lack of a rated roof-ceiling assembly will not be adverse to safety. The smoke removal system would provide very little benefit to safety.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services
- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Reinstating a smoke removal system per the original variance approval is an operational and cost hardship, given the relative lack of benefit to safety.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application

Please print name

Date of signature (month, day, year)

Edwin L. Rensink

12.8.14

Signature of design professional (if applicable)

Please print name

Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant

Please print name

Date of signature (month, day, year)

Timothy A. Puls, P.E.

4 DEC 2014



APPLICATION FOR VARIANCE

State Form 44400 (R4 / 8-10)

Approved by State Board of Accounts, 2008

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402 West Washington Street, Room W246
Indianapolis, IN 46204-2739
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INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of the applicant

Timothy A. Puls, P.E.

Title

Engineering Consultant

Name of organization

Eli Lilly and Company

Telephone number

(317) 276-7355

Address (number and street, city, state, and Zip code)

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2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (if not submitted by the applicant)

Name of person on behalf of the applicant

Edwin L. Rensink

Title

Principal

Name of organization

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Telephone number

(317) 329-7700

Address (number and street, city, state, and Zip code)

6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

3. DESIGN PROFESSIONAL OF RECORD (if applicable)

Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

Lilly Corporate Center Indianapolis, Indiana 46204

Type of project: ☐ New ☐ Addition ☐ Alteration ☐ Change of Occupancy ☒ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- ☒ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- ☒ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☒ Written documentation showing that the local fire official has received a copy of the variance application.
- ☒ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order) ☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

General Administrative Rules, 2nd Edition

Specific code section

Rule 4, Section 12(f)

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

A 6th story was added to Building 22 as a result of expansion of the original 1924 mechanical penthouse structure over several years, and inclusion of storage and building maintenance functions for this level of the building. The original building construction was a concrete frame and floor construction. The 6th floor level addition is of nonrated noncombustible construction. The building exceeds allowable height for nonrated construction by codes in effect when portions of the additional story were added to the building.

The building was constructed in 1924. After a mechanical penthouse addition was added in 1944, additional areas were added from 1956 to 1963, with one last small area added in 1996. The building is classified as B Occupancy.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

1. The entire building is protected throughout with an automatic sprinkler system, including all 6th floor areas.
2. Two (2) egress stairs serve the 6th floor. A new stair to be constructed between Buildings 22 and 31 will also serve the 6th floor.
3. Existing structure supporting the 6th floor is of fire-resistive concrete construction.
4. Based upon automatic sprinkler protection, and adequate egress for the 6th floor, the additional story to the building is not adverse to safety.

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure
- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Removal of the 6th floor construction would be an operational hardship based upon loss of floor area that is currently in use for various functions.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application

Please print name

Edwin L. Rensink

Date of signature (month, day, year)

12.4.14

Signature of design professional (if applicable)

Please print name

Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

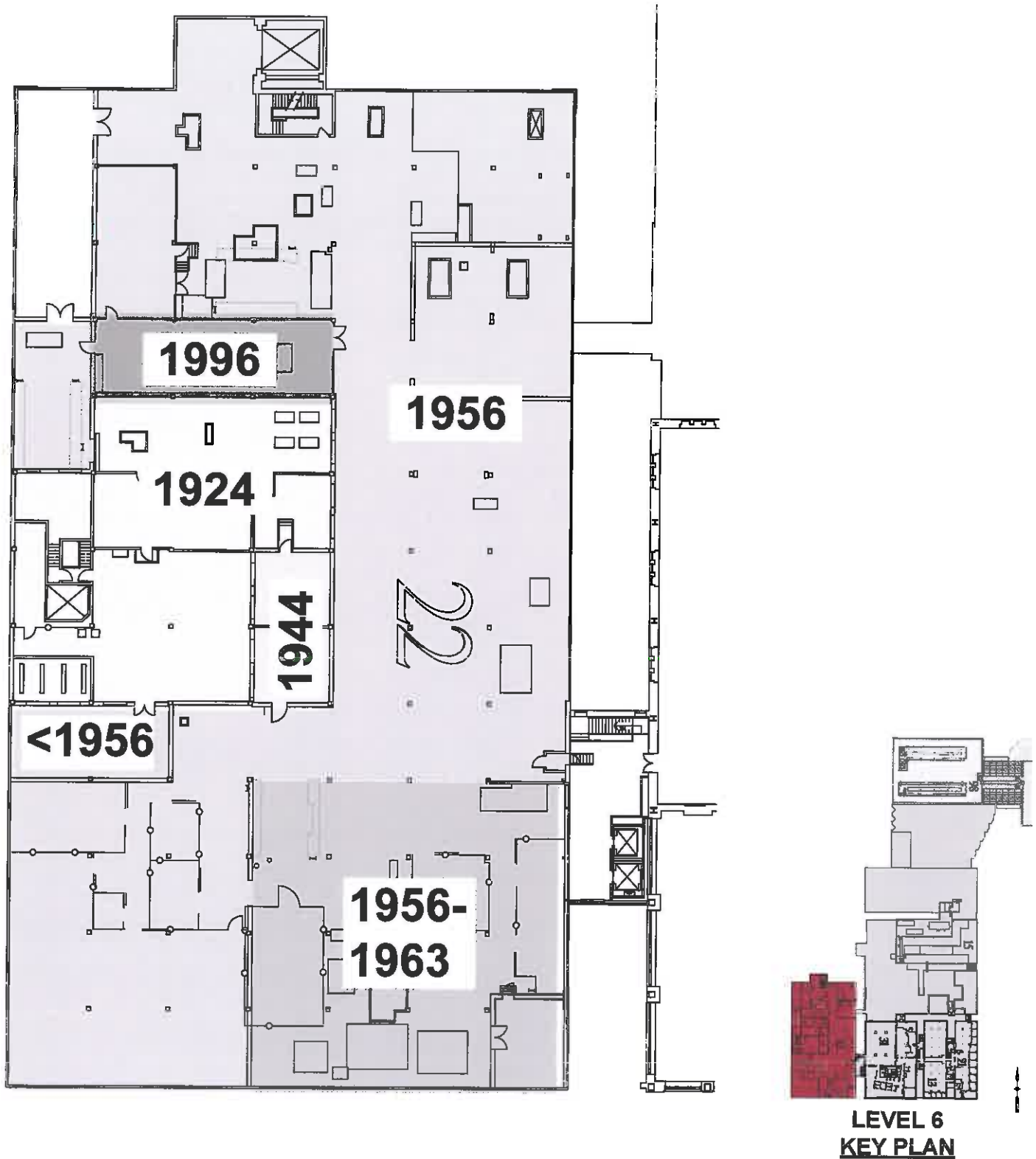
Signature of applicant

Please print name

Timothy A. Puls, P.E.

Date of signature (month, day, year)

4 DEC 2014



BUILDING 22 6TH STORY CONSTRUCTION PHASES

Exhibit G



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014





APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICE SECTION
402 West Washington Street, Room W246
Indianapolis, IN 46204-2739
http://www.in.gov/dhs/fire/fp_bs_comm_code/



INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of the applicant

Timothy A. Puls, P.E.

Title

Engineering Consultant

Name of organization

Eli Lilly and Company

Telephone number

(317) 276-7355

Address (number and street, city, state, and Zip code)

Lilly Corporate Center 893 South Delaware Street Indianapolis, Indiana 46285

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (if not submitted by the applicant)

Name of person on behalf of the applicant

Edwin L. Rensink

Title

Principal

Name of organization

RTM Consultants, Inc.

Telephone number

(317) 329-7700

Address (number and street, city, state, and Zip code)

6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

3. DESIGN PROFESSIONAL OF RECORD (if applicable)

Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

Lilly Corporate Center Indianapolis, Indiana 46204

Type of project:

☐ New

☐ Addition

☐ Alteration

☐ Change of Occupancy

☒ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- ☒ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- ☒ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☒ Written documentation showing that the local fire official has received a copy of the variance application.
- ☒ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order)

☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by:

☐ Local Building Department

☐ State Fire and Building Code Enforcement Section

☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

1985 Indiana Building Code

Specific code section

3601

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

The existing Building 21 mechanical penthouse exceeds 1/3 of the roof over the 5th floor of Buildings 13 and 21. The footprint of the penthouse is just over 50% of the 5th floor roof, however the penthouse also includes 2 additional partial upper levels. The penthouse structure also exceeds the maximum 12 feet in height permitted above the roof.

The penthouse was constructed in 1987 as part of the Building 13 and 21 renovation.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (be specific).

Facts demonstrating that the above selected statement is true:

- The penthouse is used exclusively for mechanical equipment, and is occupied only very infrequently for maintenance of equipment.**
- The penthouse areas are protected throughout with an automatic sprinkler system.**
- An enclosed egress stair extends to the main level of the penthouse.**
- Based upon the presence of automatic sprinkler protection, and the function of the penthouse, the additional area and height will not be adverse to safety.**

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☒ Imposition of the rule would result in an undue hardship (unusual difficulty) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (unusual difficulty) because of major operational problems in the use of the building or structure
- ☒ Imposition of the rule would result in an undue hardship (unusual difficulty) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Reducing the penthouse size to no more than 1/3 of the roof area would require demolition of most of the current penthouse structure and relocation of associated mechanical equipment elsewhere on the site. Due to the construction logistics and operational disruptions involved, this is a significant cost hardship.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application

Please print name

Edwin L. Rensink

Date of signature (month, day, year)

12-4-14

Signature of design professional (if applicable)

Please print name

Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

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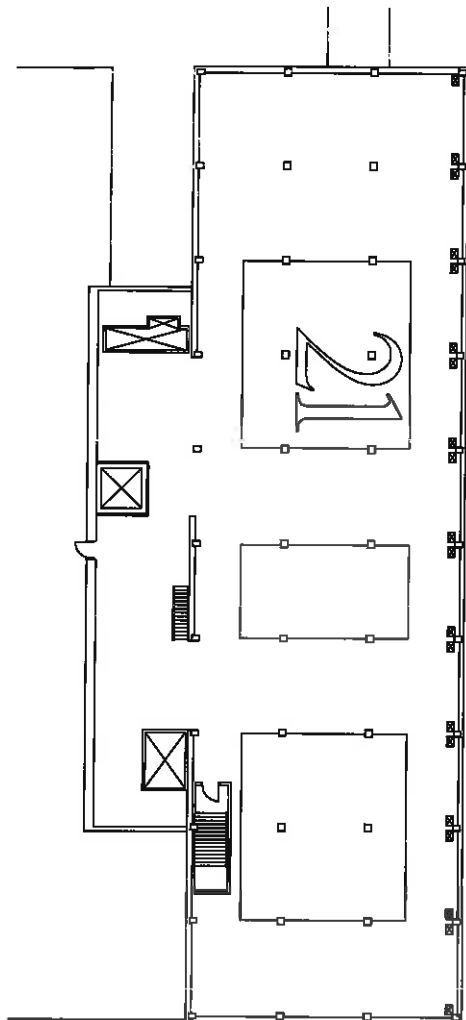
Signature of applicant

Please print name

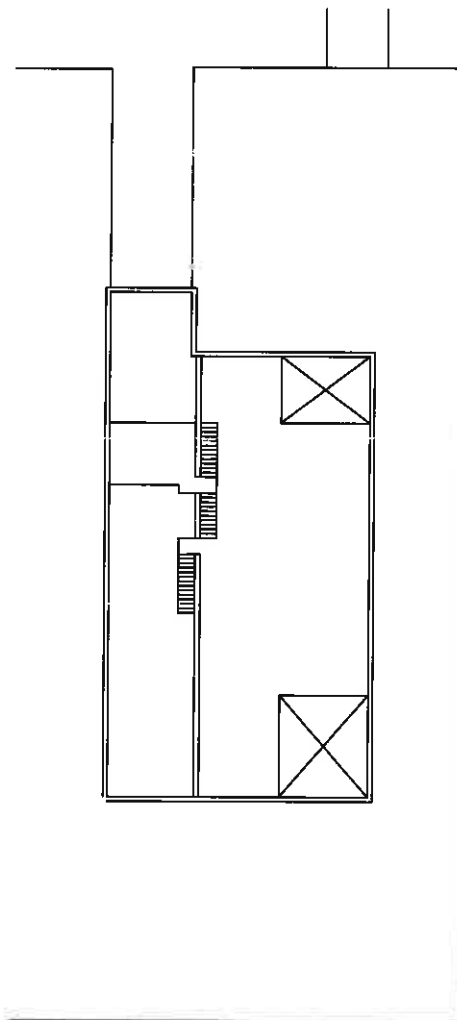
Timothy A. Puls, P.E.

Date of signature (month, day, year)

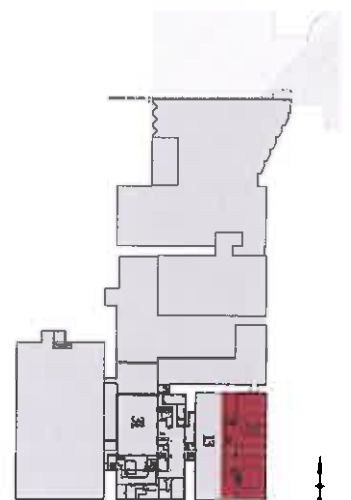
4 DEC 2014



6TH LEVEL



7TH LEVEL



**LEVEL 6
KEY PLAN**

BUILDING 21 PENTHOUSE

Exhibit F



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014



synthesis



APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICE SECTION
402 West Washington Street, Room W246
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INSTRUCTION: Please refer to the attached four (4) page instructions.
Attach additional pages as needed to complete this application.

Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted: usually this is the owner)

Name of the applicant

Timothy A. Puls, P.E.

Title

Engineering Consultant

Name of organization

Eli Lilly and Company

Telephone number

(317) 276-7355

Address (number and street, city, state, and Zip code)

Lilly Corporate Center 893 South Delaware Street Indianapolis, Indiana 46285

2. PERSON SUBMITTING APPLICATION ON BEHALF OF THE APPLICANT (if not submitted by the applicant)

Name of person on behalf of the applicant

Edwin L. Rensink

Title

Principal

Name of organization

RTM Consultants, Inc.

Telephone number

(317) 329-7700

Address (number and street, city, state, and Zip code)

6640 Parkdale Place, Suite J, Indianapolis, Indiana 46254

3. DESIGN PROFESSIONAL OF RECORD (if applicable)

Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

Lilly Corporate Center Indianapolis, Indiana 46204

Type of project: ☐ New ☐ Addition ☐ Alteration ☐ Change of Occupancy ☒ Existing

5. REQUIRED ADDITIONAL INFORMATION

The following required information has been included with this application (check as applicable):

- ☒ A check made payable to the Indiana Department of Homeland Security for the appropriate amount. (see instructions)
- ☒ One (1) set of plans or drawings and supporting data that describe the area affected by the requested variance and any proposed alternatives.
- ☒ Written documentation showing that the local fire official has received a copy of the variance application.
- ☒ Written documentation showing that the local building official has received a copy of the variance application.

6. VIOLATION INFORMATION

Has the Plan Review Section of the Division of Fire & Building Safety issued a Correction Order?

☐ Yes (if yes, attach a copy of the Correction Order) ☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

1998 Indiana Building Code

Specific code section

409

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

The below-grade pedestrian walkway between Building 22 and Parking Structure #3 is not separated with 1-hour walls and 20-minute rated doors at each end, as required per the code of record. Parking Structure #3 was constructed in 1999. Included in the project was the renovation of an existing below-grade tunnel underneath Delaware Street to connect Building 22 to the Parking Structure on the opposite side of the street.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (*be specific*).

Facts demonstrating that the above selected statement is true:

- 1. The tunnel is protected with an automatic sprinkler system, as is Building 22. The basement level of the parking structure is protected with an automatic sprinkler system, including the lobby on the garage side of the glass wall and doors. The remainder of the garage is an open parking structure.**
- 2. The separation at the Garage consists of a glass wall and doors that is protected by a row of sprinklers spaced 8 feet on center on the connector side of the wall.**
- 3. The separation at Building 22 consists of a 1-hour wall with rated doors at the basement level. A row of close-spaced sprinklers with a 16-inch bulkhead where an escalator opens up to the concourse (1st floor) level above will be provided. (16-inch bulkhead will be used in lieu of the normally required 18-inch bulkhead due to limited headroom available)**
- 4. Based upon automatic sprinkler protection for the connector, and the additional protection at each end described, the lack of a rated separation at each end is not adverse to safety.**

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:


- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of major operational problems in the use of the building or structure
- ☐ Imposition of the rule would result in an undue hardship (*unusual difficulty*) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Placement of a rated wall and doors at the escalator opening on the east end of the connector is not functionally achievable due to the location of a ramp relative to the escalator. A glazed wall is provided at the garage end of the connector for employee safety and security purposes.


10. STATEMENT OF ACCURACY

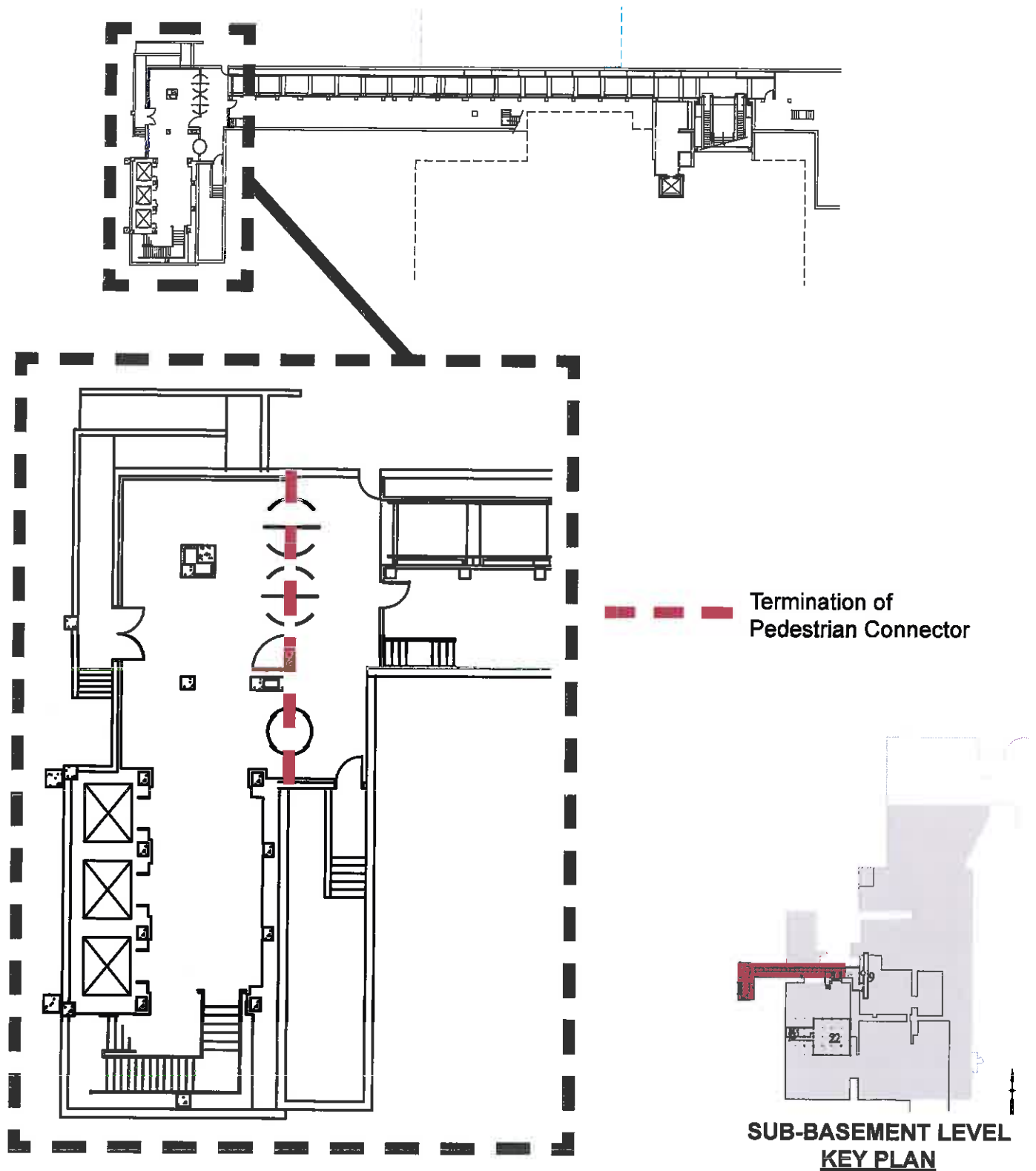
I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application 	Please print name Edwin L. Rensink	Date of signature (month, day, year) 12.4.14
Signature of design professional (if applicable)	Please print name	Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant 	Please print name Timothy A. Puls, P.E.	Date of signature (month, day, year) 4 DEC 2014
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PARKING GARAGE CONNECTOR TURNSTILE SEPARATION

Exhibit H-1

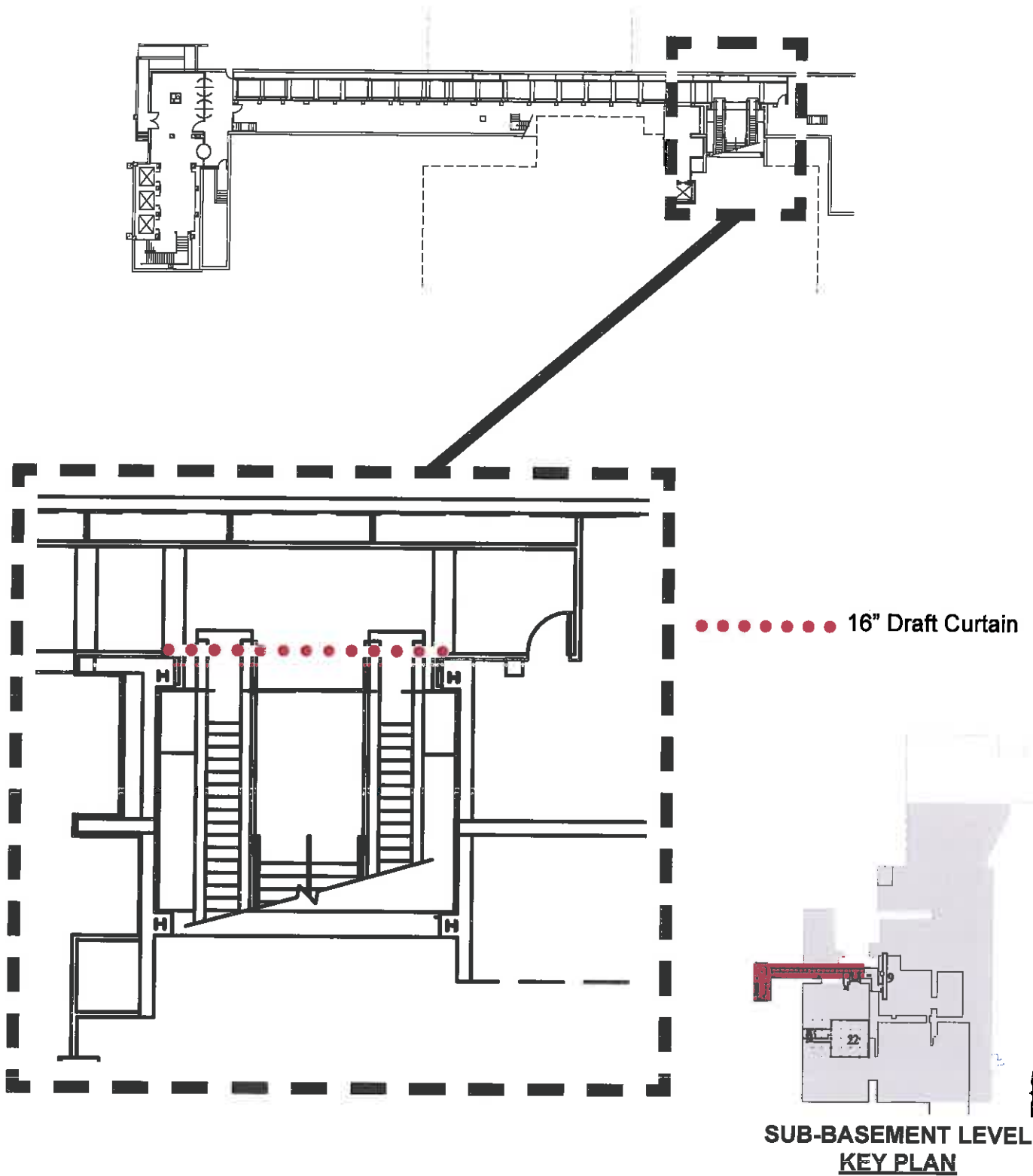


Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014

RTM
CONSULTANTS, INC.



synthesis



PARKING GARAGE CONNECTOR ESCALATOR DRAFT CURTAIN

Exhibit H-2



Eli Lilly Company
 NW Quad Code Study
 #0233011
 December 9, 2014





APPLICATION FOR VARIANCE

State Form 44400 (R4 / 6-10)

Approved by State Board of Accounts, 2008

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INSTRUCTION: Please refer to the attached four (4) page instructions.
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Variance number (Assigned by department)

1. APPLICANT INFORMATION (Person who would be in violation if variance is not granted; usually this is the owner)

Name of the applicant

Timothy A. Puls, P.E.

Title

Engineering Consultant

Name of organization

Eli Lilly and Company

Telephone number

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Name of person on behalf of the applicant

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Title

Principal

Name of organization

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Name of design professional

N/A

License number

Name of organization

Telephone number

Address (number and street, city, state, and Zip code)

4. PROJECT IDENTIFICATION

Name of project

Lilly Corporate Center Northwest Quadrant

State project number

County

Marion County

Site Address (number and street, city, state, and Zip code)

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6. VIOLATION INFORMATION

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☐ Yes (if yes, attach a copy of the Correction Order) ☒ No

Has a violation been issued? Yes (if yes, attach a copy of the Violation and answer the following) ☒ No

Violation Issued by: ☐ Local Building Department ☐ State Fire and Building Code Enforcement Section
☐ Local Fire Department

7. DESCRIPTION OF REQUESTED VARIANCE

Name of code or standard and edition involved

NFPA 72, 2010 Edition

Specific code section

10.16.6.2

Nature of non-compliance (include a description of spaces, equipment, etc. involved as necessary)

The B011 and B013 fire alarm zones in the LCC Northwest Quadrant are separated with a "buffer" corridor zone, in lieu of fire- or smoke-rated wall construction. There are four (4) evacuation zones total. See drawing for detail.

The buildings are primarily Business Occupancy, with some A-3 Occupancy meeting spaces.

8. DEMONSTRATION THAT PUBLIC HEALTH, SAFETY, AND WELFARE WILL BE PROTECTED

Select one of the following statements:

- ☒ Non-compliance with the rule will not be adverse to the public health, safety or welfare; or
- ☐ Applicant will undertake alternative actions in lieu of compliance with the rule to ensure that granting of the variance will not be adverse to public health, safety, or welfare. Explain why alternative actions would be adequate (be specific).

Facts demonstrating that the above selected statement is true:

- 1. An actuating device in B011 or in B013 will evacuate that zone + the separating corridor.**
- 2. The proposed arrangement will ensure evacuation of the effected area, without provision of a fire or smoke separation, and will not be adverse to safety.**

9. DEMONSTRATION OF UNDUE HARDSHIP OR HISTORICALLY SIGNIFICANT STRUCTURE

Select one of the following statements:

- ☐ Imposition of the rule would result in an undue hardship (unusual difficulty) because of physical limitations of the construction site or its utility services
- ☒ Imposition of the rule would result in an undue hardship (unusual difficulty) because of major operational problems in the use of the building or structure
- ☒ Imposition of the rule would result in an undue hardship (unusual difficulty) because of excessive costs of additional or altered construction elements
- ☐ Imposition of the rule would prevent the preservation of An architecturally or a historically significant part of the building or structure.

Facts demonstrating that the above selected statement is true:

Separation of the zones with rated construction is not feasible based upon existing spaces open to the corridor on each side.

10. STATEMENT OF ACCURACY

I hereby certify under penalty of perjury that the information contained in this application is accurate

Signature of applicant or person submitting application

Please print name

Date of signature (month, day, year)

**Edwin L. Rensink****12-9-14**

Signature of design professional (if applicable)

Please print name

Date of signature (month, day, year)

11. STATEMENT OF AWARENESS (If the application is submitted on the applicant's behalf, the applicant must sign the following statement)

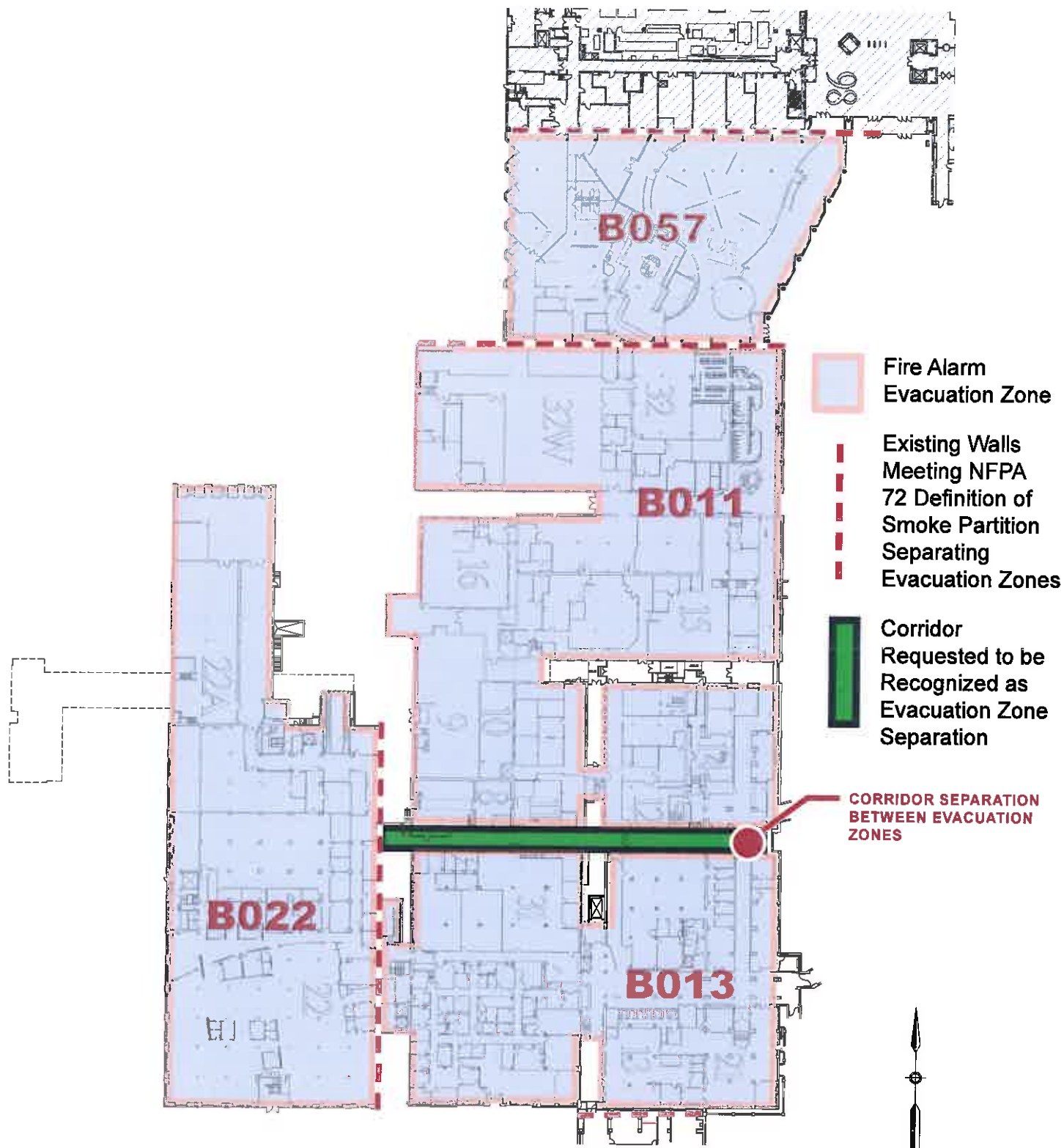
I hereby certify under penalty of perjury that I am aware of this request for variance and that this application is being submitted on my behalf.

Signature of applicant

Please print name

Date of signature (month, day, year)

**Timothy A. Puls, P.E.****4 DEC 2014**



FIRE ALARM EVACUATION ZONING

Exhibit J



Eli Lilly Company
NW Quad Code Study
#0233011
December 9, 2014

